LIST OF CONTENTS

JULY

H. Leon Bradlow xiii Obituary: Dr Carl Monder (1928–1995)

Minireview

Masafumi Koga, Soji Kasayama, Keishi Matsumoto and Bunzo Sato 1 Molecular mechanism of androgen-dependent growth in transformed cells. Pathway from basic science to clinical application

Rapid Communications

R. John Bicknell, Allan E. Herbison and John P. Sumpter 7 Oestrogenic activity of an environmentally persistent alkylphenol in the reproductive tract but not the brain of rodents

Christel C. Verboven, Hendrik L. De Bondt, Camiel De Ranter, Roger Bouillon and Hugo Van Baelen 11 Crystallization and X-ray investigation of vitamin D-binding protein from human serum. Identification of the crystal content

Papers

Barbara E. H. Sumner and George Fink 15 Estrogen increases the density of 5-hydroxytryptamine$_{2A}$ receptors in cerebral cortex and nucleus accumbens in the female rat

R. J. Daly, N. Carrick and P. D. Darbre 21 Progression to steroid autonomy is accompanied by altered sensitivity to growth factors in S115 mouse mammary tumour cells

Michel Vallée, Sylvie Perron, Yves Tremblay and Alain Bélanger 31 Regulation of guinea pig adrenal *P*450c21 messenger RNA, protein and activity by RU486

Angela M. Otto 39 A one minute pulse of estradiol to MCF-7 breast cancer cells changes estrogen receptor binding properties and commits cells to induce estrogenic responses

Hiroshi Inano, Hiroko Ishii-Ohba, Keiko Suzuki, Hiroshi Yamanouchi, Makoto Onoda and Katsumi Wakabayashi 47 Chemoprevention by dietary dehydroepiandrosterone against promotion/progression phase of radiation-induced mammary tumorigenesis in rats

V. Bodart, H. Ong and A. De Léan 55 A role for protein tyrosine kinase in the steroidogenic pathway of angiotensin II in bovine zona glomerulosa cells

D. E. Mais, J. S. Hayes, R. B. Heap and M-W. Wang 63 Specific interactions of progestins and anti-progestins with progesterone antibodies, plasma binding proteins and the human recombinant receptor

Robert Brommage, Claudine Binacua and Anne-Lise Carrié 71 The cecum does not participate in the stimulation of intestinal calcium absorption by calcitriol

Birte-Marie Agular and Constance Vind 75 Effects of dexamethasone on steroidogenesis in Leydig cells from rats of different ages

Hans Ragnar Norli, Kim Esbensen, Frank Westad, Kåre I. Birkeland and Peter Hemmersbach 83 Chemometric evaluation of urinary steroid profiles in doping control

AUGUST

Thresia Thomas, Michael A. Gallo, Carolyne M. Klinge and T. J. Thomas 89 Polyamine-mediated conformational perturbations in DNA alter the binding of estrogen receptor to poly(dG-m^{5}dC).poly(dG-m^{5}dC) and a plasmid containing the estrogen response element

O. Ortmann, M. Bakhit, P. Bloh, K-D. Schulz and G. Emons 101 Ovarian steroids modulate gonadotropin-releasing hormone-induced biphasic luteinizing hormone secretory responses and inositol phosphate accumulation in rat anterior pituitary cells and αT3-1 gonadotrophs

Yusuf J. Abul-Hajj, Xing-Ping Liu and Matthew Hedge 111 Synthesis and evaluation of 4-substituted-4-androstene-3,17-dione derivatives as aromatase inhibitors

A. Perrin, E. M. Chambaz and G. Defaye 121 Modulation of hydroxylase and lyase activities of bovine cytochrome *P*-450$_{17\alpha}$ in adrenal and testicular microsomes by a tissue-specific local membrane environment

Günter Vollmer, Anne-Christine Hopert, Nicola Ellerbrake, Winfried Wünsche and Rudolf Knuppen 131 Fibronectin is an estrogen-repressed protein in RUCA-I rat endometrial adenocarcinoma cells

Mikko Loukovaara, Marion Carson and Herman Adlercreutz 141 Regulation of sex hormone-binding globulin secretion and gene expression by cycloheximide *in vitro*

Fatemeh Davoodi, Richard V. Brenner, Stephen R. T. Evans, Lisa M. Schumaker, Mohsen Shabahang, Russell J. Nauta and Robert R. Buras 147 Modulation of vitamin D receptor and estrogen receptor by 1,25(OH)$_2$-vitamin D$_3$ in T-47D human breast cancer cells

Piera Rebuffat, Stefano Rocco, Paola G. Andreis, Giuliano Neri, Krzysztof W. Nowak, Jörg Peters, Giuseppe Opocher, Giuseppina Mazzocchi, Franco Mantero and Gastone G. Nussdorfer 155 Morphology and function of the adrenal zona glomerulosa of transgenic rats TGR [mREN2] 27: effects of prolonged sodium restriction

Akira Endoh, Hiromune Natsume and Yoshio Igarashi 163 Dual regulation of 21-hydroxylase activity by sex steroid hormones in rat hepatocytes

G. E. Joannou, G. E. Kelly, A. Y. Reeder, M. Waring and C. Nelson 167 A urinary profile study of dietary phytoestrogens. The identification and mode of metabolism of new isoflavonoids

P. N. Span, A. G. H. Smals, C. G. J. Sweep and Th. J. Benraad 185 Rat steroid 5α-reductase kinetic characteristics: extreme pH-dependency of the type II isozyme in prostate and epididymis homogenates

SEPTEMBER

Martin K. Oaks and Hershel Raff 193 Differentiation of the expression of aldosterone synthase and 11β-hydroxylase mRNA in the rat adrenal cortex by reverse transcriptase–polymerase chain reaction

J. K. Christman, S. Nehls, L. Polin and S. C. Brooks 201 Relationship between estrogen structure and conformational changes in estrogen receptor/DNA complexes

N. Bianchi, M. Passadore, G. Feriotto, C. Mischiati, R. Gambari and R. Piva 211 Alteration of the expression of human estrogen receptor gene by distamycin

Norihiro Kobayashi, Hidetoshi Mano, Tetsuya Imazu and Kazutake Shimada 217 Tandem immunoaffinity chromatography for plasma 1α,25-dihydroxyvitamin D_3 utilizing two antibodies having different specificities: a novel and powerful pretreatment tool for 1α,25-dihydroxyvitamin D_3 radioreceptor assays

Stephan Reuter and Doris Mayer 227 Transport of dehydroepiandrosterone and dehydroepiandrosterone sulphate into rat hepatocytes

Debra C. DuBois, Zhi-Xin Xu, Lorraine McKay, Richard R. Almon, Nancy Pyszcznski and William J. Jusko 237 Differential dynamics of receptor down-regulation and tyrosine aminotransferase induction following glucocorticoid treatment

Andrew L. Laslett, James R. McFarlane, Milton T. W. Hearn and Gail P. Risbridger 245 Requirement for heparan sulphate proteoglycans to mediate basic fibroblast growth factor (FGF-2)-induced stimulation of Leydig cell steroidogenesis

Alessandro Ferrari, Felice Petraglia and Erlio Gurpide 251 Corticotropin releasing factor decidualizes human endometrial stromal cells *in vitro*. Interaction with progestin

Shizuo Nakajin, Takashi Nakajima, Mihoko Uchida, Shuji Ohno and Masato Shinoda 257 Direct expression of pig testicular 3α/β (20β)-hydroxysteroid dehydrogenase in *Escherichia coli*

Masafumi Kudoh, Yoko Susaki, Yukitaka Ideyama, Taiki Nanya, Minoru Okada, Hisataka Shikama and Takashi Fujikura 265 The potent and selective inhibition of estrogen production by non-steroidal aromatase inhibitor, YM511

Catherine Iehlé, Sylvie Délos, Olivier Guirou, Rothwell Tate, Jean-Pierre Raynaud and Pierre-Marie Martin 273 Human prostatic steroid 5α-reductase isoforms—a comparative study of selective inhibitors

Dan Xu, Jeffrey M. Voigt, Bruce A. Mico and Howard D. Colby 281 Inhibition of adrenal steroid metabolism by administration of 1-aminobenzotriazole to guinea pigs

Corrigenda 287

Announcement I